

FRAMING PLAN

BRIDGE ELEVATION

FINAL BRIDGE CAMBER= 24 1/8"

BRIDGE ELEVATION

FINAL BRIDGE CAMBER= 22"



PEDESTRIAN BRIDGE

90'-0" C/C BRC X 14'-0" CLEAR WALKWAY

MARTINDALE PARK
STARK COUNTY, OHIO

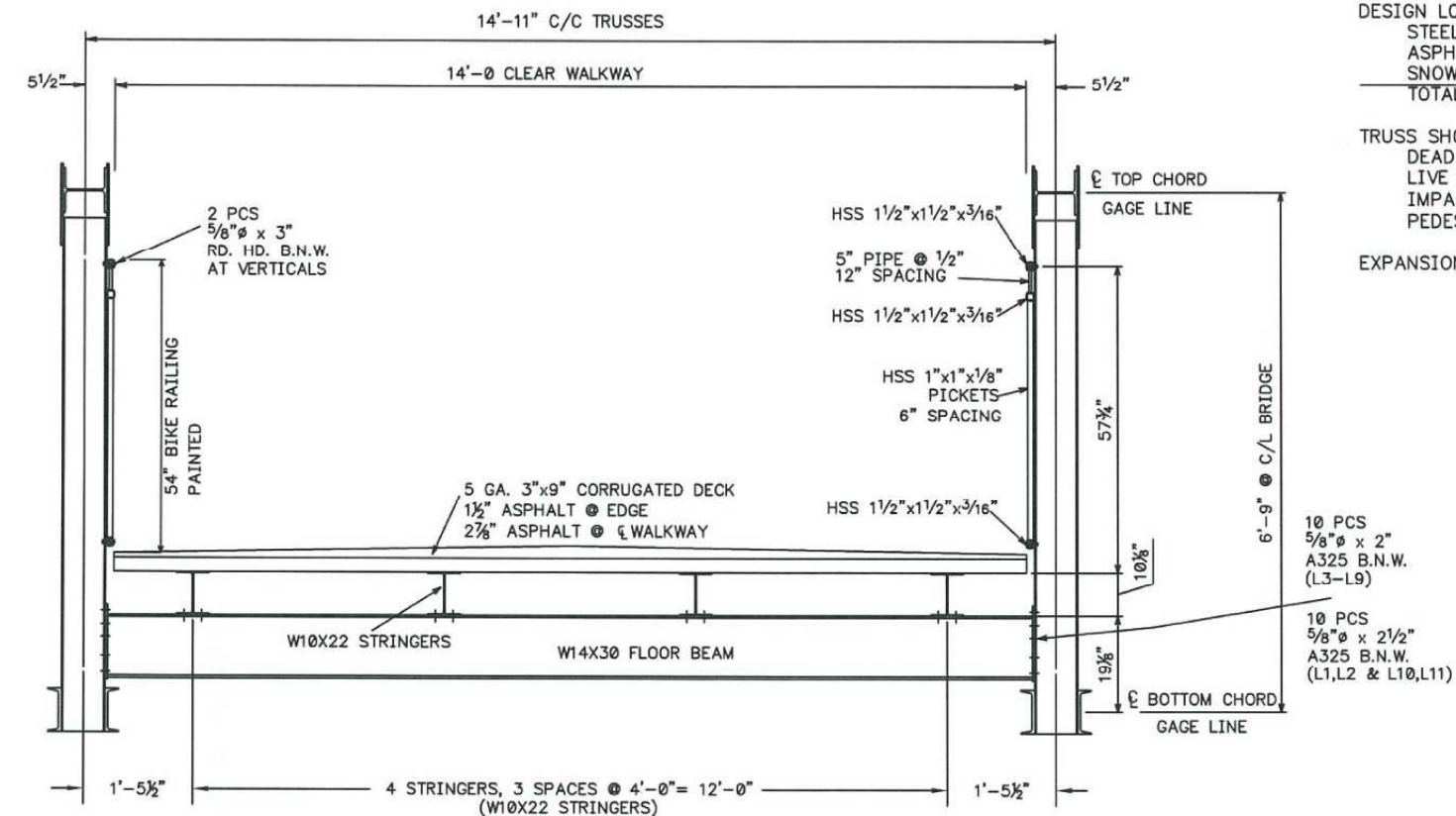
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SHEET NO.

TOTAL

3

NOTE: DRAWINGS RELATIVE (DO NOT SCALE)



DESIGN DEAD LOADS

TYPICAL WALKWAY SECTION

PROJECT DESIGN CRITERIA

SPAN - 90'-0" C/C BEARINGS
 DECK WIDTH - 14'-0"
 SIDEWALK - N/A
 SKEW - N/A
 DESIGN LIVE LOAD - H-15 / 85 PSF PEDESTRIAN

DESIGN LOADS:

STEEL FLOOR	15 PSF
ASPHALT SURFACING	40 PSF
SNOW LOAD	25 PSF
TOTAL	80 PSF

TRUSS SHOE REACTION:

DEAD LOAD	34.40K
LIVE LOAD (H-15)	26.30K
IMPACT	6.10K
PEDESTRIAN LIVE LOAD (85PSF)	26.80K

EXPANSION - N/A

GENERAL NOTES:

- DESIGN SPECIFICATION:
 AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17th EDITION (2002), DIVISION I, WITH ALL INTERIM SPECIFICATIONS IN EFFECT.
 BRIDGE DESIGN SHALL IN COMPLIANCE WITH AASHTO H-15 TRUCK LOADING OR 85 PSF PEDESTRIAN LIVE LOAD, WHICHEVER PRODUCES GREATER STRESSES.
- MATERIAL:
 ALL SUPERSTRUCTURE STEEL SHALL BE ASTM A709, GRADE 50 (A572). UNLESS NOTED OTHER. ALL STEEL GALVANIZED AND PAINTED AFTER FABRICATION. ALL FASTENERS UNLESS NOTED OTHERWISE, SHALL BE 7/8" Ø HIGH STRENGTH BOLTS, ASTM A325 TYPE 1 (GALV.). WITH ASTM A563 GRADE DH OR DH3 NUT AND ONE ASTM F436 WASHER PER BOLT. FASTENERS SHALL BE FURNISHED WITH ROTATIONAL CAPACITY TEST.
 FLOOR BEAMS, STRINGERS, BOTTOM CHORD GUSSET PLATES, BOTTOM CHORD & DIAGONALS REQUIRE NFC ZONE 2 CVN (15 FT-LBS @ 40°F)
- PAINTING
 THE RAILING, TRUSSES, AND ALL HARDWARE SHALL BE PROTECTED WITH A THREE PART SHOP APPLIED SYSTEM CONSISTING OF A GALVANIZING BASE TREATMENT, AN EPOXY INTERMEDIATE COAT, AND A POLYURETHANE FINISH COAT. THE POST ANCHOR DEVICE SHOULD BE GALVANIZED ONLY, NOT PAINTED. FASTENERS MAY BE FIELD PAINTED AS REQUIRED TO FACILITATE CONSTRUCTION. ANY DAMAGE TO THE PROTECTIVE COATING SYSTEM SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER. THE INTERMEDIATE COAT SHALL BE TINTED AS NECESSARY TO ACHIEVE THE PROPER FINISH COLOR.
 PART 1 OF THE SYSTEM SHALL CONSIST OF HOT DIPPED GALVANIZING AS PER ODOT 711.02. FOLLOWING GALVANIZING, ALL SURFACES TO BE PAINTED SHALL BE BRUSH BLASTED PER STEEL STRUCTURES PAINTING COUNCIL (SSPC) SURFACE PREPARATION SPECIFICATION NO. 7.
 PART 2 OF THE SYSTEM SHALL CONSIST OF A FAST CURE, HIGH SOLIDS, HIGH BUILD, POLYAMIDE EPOXY THAT IS DESIGNED TO PROTECT STEEL IN INDUSTRIAL EXPOSURES AND IS COMPATIBLE WITH PART 1, GALVANIZING. THE EPOXY SHALL BE APPLIED TO A THICKNESS OF 5.0 TO 10.0 MILS DFT. IT SHALL BE APPLIED PER THE MANUFACTURER'S RECOMMENDATIONS AND SHALL MEET OR EXCEED THE FOLLOWING PRODUCT AND PERFORMANCE CHARACTERISTICS.

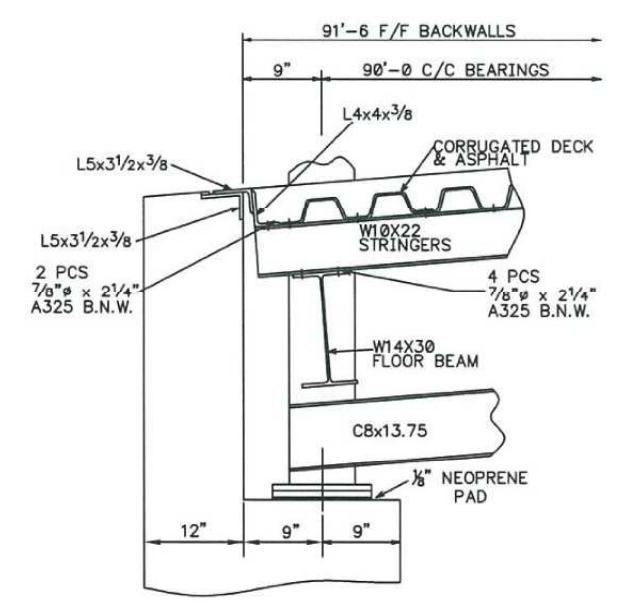
PAINT COLORS SHALL BE AS FOLLOWS
TRUSSES- SHERWIN WILLIAMS-SW4016-CORRUGATE BROWN OR APPROVED EQUAL
RAILS AND END FLOOR BEAMS- GLOSS BLACK

- CONSTRUCTION/FABRICATION:
 AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17th EDITION (2002), DIVISION II, WITH ALL INTERIM SPECIFICATIONS IN EFFECT.
- WELDING:
 ALL WELDING SHALL BE IN ACCORDANCE WITH AASHTO/AWS D1.5 BRIDGE WELDING CODE AND THE AASHTO FRACTURE CONTROL, WHERE APPLICABLE.

NON-DESTRUCTIVE TESTS OF ALL WELDS SHALL BE PERFORMED AS FOLLOWS:
 FILLET WELDS - VISUAL - 100%
 - MT. - 10% MIN PER AWS D1.5

- FLOORING:
 3" x 9" 5GA. CORRUGATED STEEL DECKING ASTM A 1011-SS GRADE 50 (OR BETTER) STEEL SHEET SECTION MODULUS 5.206 IN³ /PLANK SHALL BE INSTALLED IN 18" LAYING WIDTHS. END DAMS SHALL BE SUPPLIED PAINTED

- ANCHOR BOLTS
 THE ANCHOR BOLTS SHALL BE EITHER BE CAST-IN-PLACE DURING ABUTMENT CONSTRUCTION OR DRILLED AND ANCHORED TO THE ABUTMENTS AFTER THE BRIDGE IS ERECTED. THE ANCHOR BOLTS ARE TO BE ANCHORED USING EPCON A7 FAST CURING ACRYLIC ADHESIVE OR EQUAL. EPCON A7 IS A PRODUCT OF ITW RED HEAD, 2171 EXECUTIVE DRIVE, ADDISON, IL 60101 PHONE: 603-350-0370. THE ACRYLIC ADHESIVE IS FURTHER DESCRIBED AS A TWO COMPONENT METHYL METHACRYLATE ADHESIVE, NON-SAG PASTE, MOISTURE INSENSITIVE WHEN CURED, DARK GREY IN COLOR. MEETS ASTM C881-90, TYPE IV, GRADE 3, CLASS A,B, AND C WITH THE EXCEPTION OF GEL TIME AND EPOXY CONTENT.

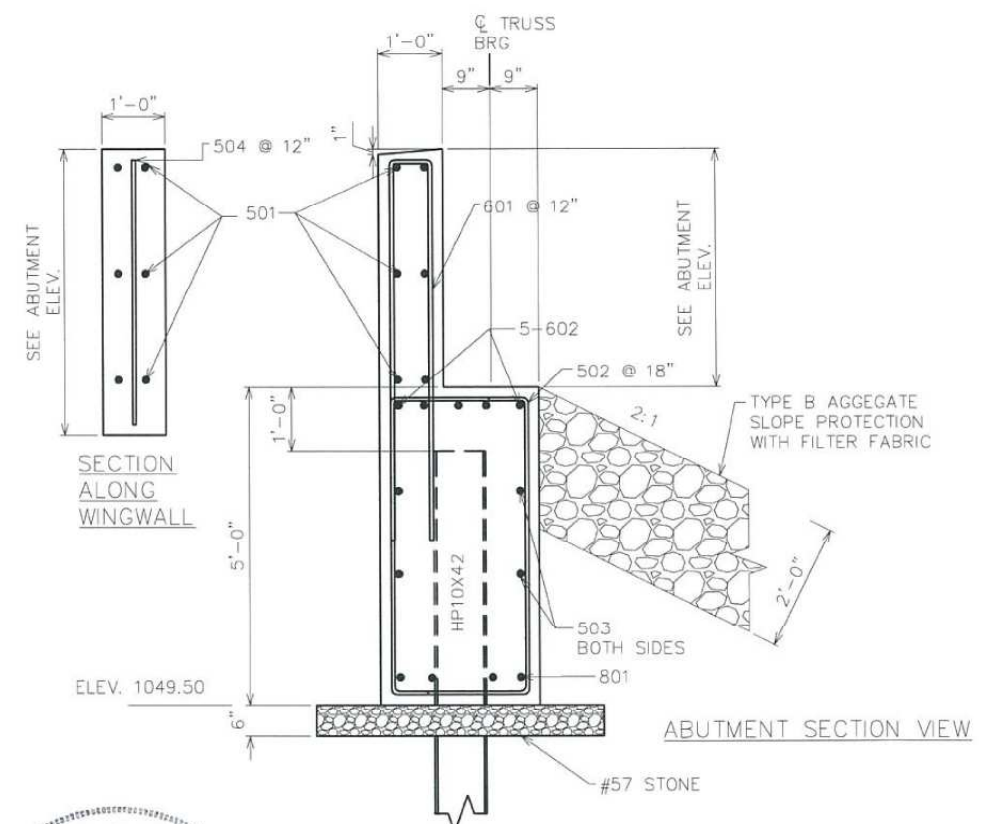
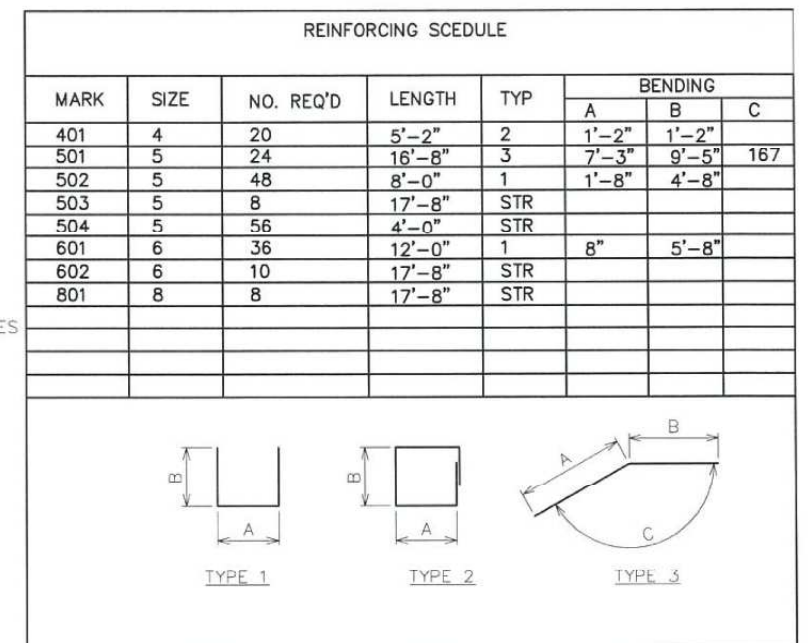


ABUTMENT DETAIL



NOTE: DRAWINGS RELATIVE DO NOT SCALE

PEDESTRIAN BRIDGE				
90'-0" C/C BRG X 14'-0" CLEAR WALKWAY				SHEET NO.
MARTINDALE PARK				2
STARK COUNTY, OHIO				
DESIGN: SAF	DRAW: ADS	REVIEW:	CHECK:	JOB#
TOTAL				3



NOTES:
DRIVE HP10X42 BEARING PILE
TO 20 TON BEARING

CONCRETE SHALL BE ODOT
CLASS C



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PEDESTRIAN BRIDGE

90'-0" C/C BRG X 14'-0" CLEAR WALKWAY
MARTINDALE PARK
STARK COUNTY, OHIO

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SHEET NO.	3
TOTAL	3